
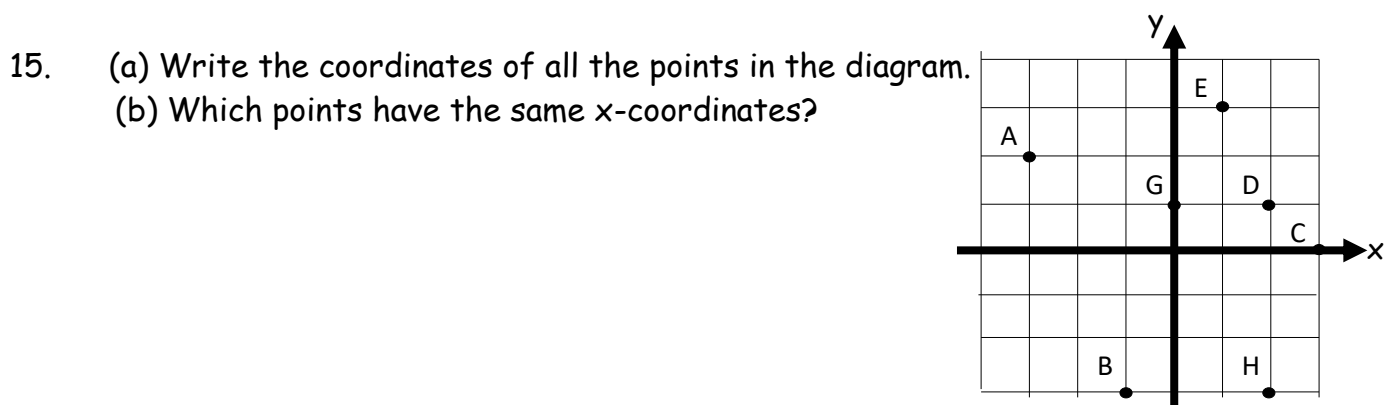


Negative Numbers

1. Write down the number that is 6 lower than 4
Write down the number that is 6 lower than -4
Write down the number that is 7 lower than -2
Write down the number that is 8 lower than 1
Write down the number that is 6 higher than 4
Write down the number that is 6 higher than -4
Write down the number that is 9 higher than -5
Write down the number that is 9 higher than -10
2. Put these numbers in order starting with the lowest:
(a) 2, -4, 5, -3, 5, -2, 0, 1, -4, 5, -6 (b) 6, 9, -5, -2, 4, -4, 7, -10, 8
3. What is the difference between
(a) 9 and -6 (b) 7 and -8 (c) 4 and -4 (d) -5 and -4 (e) -6 and -12
4. Calculate
(a) $7 + 2$ (b) $(-7) + 2$ (c) $(-7) + 10$ (d) $(-3) + 5$
(e) $(-1) + 6$ (f) $(-6) + 15$ (g) $(-20) + 30$ (h) $(-10) + 7$
(i) $(-32) + 15$ (j) $(-23) + 100$ (k) $5 - 3$ (l) $(-7) - 9$
5. Jeremiah was born in 37BC and lived until he was 62 years old.
In which year did he die?

6. A diver is 25m below sea-level.
(a) A wreck lies at the bottom of the sea 65m below the diver. How deep is the sea?

(b) A helicopter hovers at a height of 30m. It is directly above the diver.
What is the distance between the helicopter and (i) the diver? (ii) the wreck?
7. Calculate:
(a) $12 + (-30)$ (b) $(-16) + (-16)$ (c) $(-4) - 10$ (d) $41 - 52$
(e) $13 + (-5)$ (f) $(-5) + (-18)$ (g) $(-12) - 7$ (h) $(-3) - (-1)$
(i) $2 + (-17)$ (j) $(-8) + (-17)$

8. Calculate: (a) $6 + 4 + (-2)$ (b) $(-21) + (-14) - 7$ (c) $(-5) - 8 + (-10)$
9. The temperatures one week in Glencoe were: -3°C , -1°C , -6°C , -7°C , -9°C , -10°C , -6°C
Calculate the mean temperature.
10. State whether each is true or false:
(a) $4 < -3$ (b) $2 > -2$ (c) $-3 < 0$ (d) $7 < -1$ (e) $8 > 10$
11. Put $<$ or $>$ between each pair:
(a) 0 -3 (b) -7 -10 (c) 4 5 (d) -3 -9
12. The temperature in London at 2pm was 16°C but at 2am it had dropped to -4°C .
What was the difference in temperature over the 12 hours?
13. Find the difference in temperature between Glasgow at 2°C and Edinburgh at -5°C .
14. The temperature in London at 2pm was 23°C but at 2am it had dropped to -9°C .
What was the difference in temperature over the 12 hours?



16. (a) Draw a coordinate diagram and plot the points:
 $P(-5,3)$, $Q(2,-5)$, $R(-5,-1)$, $S(-3,0)$, $T(1,4)$, $U(3,-1)$ and $V(-5,5)$
- (b) The point W is halfway between R and U. Write the coordinates of W.